

ABSTRACT OF THE DISCLOSURE

A method and apparatus for adjusting the path of an optical beam and in particular, a method and apparatus for improving the coupling efficiency (power input) of free-space radiation into an optical waveguide using, as part of an optical train, a weak lens positioned along the path of the optical beam (the Z axis) and adapted to adjust the path of the beam. The weak lens is translatable along the Z axis and also along at least one axis perpendicular to the Z axis (the X or Y axes). In a preferred embodiment, the weak lens possesses all three positional degrees of freedom (i.e., it is adjustable along all of the X, Y, and Z axes). In certain preferred embodiments, the weak lens is also capable of one or even two orientational degrees of freedom (i.e., pitch and/or yaw).